

IN STRICT CONFIDENCE

LAWRENCE LIVERMORE LABORATORY

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Electronics Engineering Department

December 26, 1979  
EMS79-0117

Dr. Ruth M. Davis  
Assistant for Research Applications  
Department of Energy  
Federal Building, Room 3400  
12th and Pennsylvania Avenue, N.W.  
Washington, DC 20461

Dear Dr. Davis:

I enjoyed the meeting I had with you and Dr. LaBerge on November 28, 1979. I especially appreciated the questions and comments. Some of the questions prompted me to obtain more accurate answers than I was able to give at the time. The questions pertaining to the size and scope of a program and the Laboratory management's probable attitude toward such a program are discussed below.

I have had discussions with LLL's acoustic emission, metallurgy and ceramics personnel in order to estimate the amount and type of effort needed to extend and improve the preliminary work which I presented at the briefing. At this time, my original estimate was approximately correct. It appears that the equivalent of 5-7 full employees would be the optimum. The tasks would be distributed among 10-15 researchers, technicians and other consultants and advisors. This level of effort would enable a one-year program to obtain reliable data or nearly exhaust the possibility of obtaining such data.

In order to assess the Laboratory management's receptivity to such a project, I had discussions with Henry McDonald, Associate Director for Engineering, and Dale Nielsen, Associate Director for Administration. Both associate directors indicated that such types of multidisciplinary and discrete research are within the capability of LLL. The Director,

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Dr. Roger Batzel, has been informed that such a project might be suggested by DOE and/or DOD. Therefore, in answer to your question of who should be contacted on this matter, the appropriate person would be Dr. Batzel.

Sincerely,

*R. S. Hawke*

R. S. HAWKE  
Engineering Research Division

MAIL STOP L-156

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Copy to:

R. E. Batzel  
H. C. McDonald  
D. E. Nielsen

Dr. W. LaBerge ~~←~~  
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of Defense  
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